CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/TN/W.No.11/CSR-12/518d/CEMENT/2017-18 Date: 16.12.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Nataraj,** #02, 1st Main, Amarjyothi Layout, Cholanagara, R.T. Nagara (P), Bangalore – 560 032.
* Name of Work	:	Providing Gym equipments in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2017-18 Dated: 05.04.2017
* Sample ID	:	Cement
Sample Received on	:	15.12.2017
Period of Testing	:	15.12.2017 to 16.12.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

Civil-Tech Consultants & Engineers Bangalore

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/TN/W.No.11/CSR-12/518d/SAND-Gradation/2017-18 16.12.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Nataraj,** #02, 1st Main, Amarjyothi Layout, Cholanagara, R.T. Nagara (P), Bangalore – 560 032.
* Name of Work	:	Providing Gym equipments in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2017-18 Dated: 05.04.2017
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	15.12.2017
Date of Testing	:	16.12.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.50	90-100	90-100	90-100	95-100
2.36	79.30	60-95	75-100	85-100	95-100
1.18	59.30	30-70	55-90	75-100	90-100
600 Micron	38.30	15-34	35-59	60-79	80-100
300 Micron	19.60	5-20	8-30	12-40	15-50
150 Micron	7.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

****

VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/TN/W.No.11/CSR-12/518d/AGG/GR/2017-18 16.12.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Nataraj,** #02, 1st Main, Amarjyothi Layout, Cholanagara, R.T. Nagara (P), Bangalore – 560 032.
* Name of Work	:	Providing Gym equipments in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2017-18 Dated: 05.04.2017
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	15.12.2017
Date of Testing	:	16.12.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.54	95-100	85-100
20	40.24	30-70	0-20
10	14.26	10-35	0-5
4.75	2.26	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

****

VIDYARANI P.K.
Technical Manager

#23/1&2, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/TN/W.No.11/CSR-12/518d/Cube/2017-18 19.01.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Nataraj,** #02, 1st Main, Amarjyothi Layout, Cholanagara, R.T. Nagara (P), Bangalore – 560 032.
* Name of the work	:	Providing Gym equipments in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2017-18 Dated: 05.04.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.01.2018

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.12.2017	19.01.2018	8.166	375.6	16.69
2	22.12.2017	19.01.2018	8.235	386.5	17.18
3	22.12.2017	19.01.2018	8.380	382.4	17.00

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/TN/W.No.11/NB Pipe/2017-18 28.12.2017

TEST REPORT ON NB PIPE

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. T. Nataraj,** #02, 1st Main, Amarjyothi Layout, Cholanagara, R.T. Nagara (P), Bangalore – 560 032.
* Name of work	:	Providing Gym equipments in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/13/2017-18 Dated: 05.04.2017
* Sample ID	:	NB Pipe - 100mm dia
Date of Testing	:	28.12.2017

PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	5.4 mm
2	Nominal Diameter	100 mm
3	Outer Diameter	114.3 mm
4	Weight / Meter	14.30 kg

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Civil-Tech Consultants & Engineers Bangalore

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

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Civil-tech Consultants & Engineers
#23/14, 7th Cross, 3rd Stage, 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.